

## CLAIMS:

1. A method of data transmission between mobile telephones, characterized in that a request signal is sent from a first mobile telephone to a second mobile telephone via a wireless communication interface, and the telephone number of the second mobile telephone is transmitted to the first mobile telephone.

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2. A method as claimed in claim 1, characterized in that an infrared interface is used as the wireless communication interface.

3. A method as claimed in claim 1 or 2, characterized in that the telephone numbers are transmitted via an infrared interface and/or a radio connection, in particular a Bluetooth connection, a DECT connection, and/or a GSM connection.

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4. A method as claimed in any one of the preceding claims, characterized in that user-specific data of the second mobile telephone, such as a name and/or address and/or e-mail address, are also transmitted to the first mobile telephone.

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5. A method as claimed in any one of the preceding claims, characterized in that a message, preferably formed as an SMS message, is sent by the first mobile telephone to the second mobile telephone.

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6. A method as claimed in any one of the preceding claims, characterized in that an optical and/or acoustic and/or vibration signal is emitted at the first and/or the second mobile telephone after data transmission.

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7. A method as claimed in any one of the preceding claims, characterized in that the data transmission function can be switched off by the user at the second mobile telephone.

8. A method as claimed in any one of the preceding claims, characterized in that the data transmission takes place as a function of fulfillment of a given or specifiable criterion.

5 9. A method as claimed in claim 8, characterized in that said criterion comprises a user-specific profile and/or filter.

10. A method as claimed in any one of the preceding claims, characterized in that those second mobile telephones which are ready for data transmission are displayed on the  
10 first mobile telephone.

11. A method as claimed in any one of the preceding claims, characterized in that the data transmission takes place between all subscribers of a GSM network, between subscribers within a send/receive cell, or between subscribers of a defined group.

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12. A mobile telephone, characterized in that it is designed for implementing the method as claimed in any one of the claims 1 to 11.

13. A data transmission system, characterized in that it comprises a plurality of  
20 mobile telephones as claimed in claim 12.